

# Graphene Oxide In Chemtrials • Genocide From Above • 3D Graphene Oxide Nanoparticles for Cloud Seeding Patent US 2022/0002159 A1



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(54) **3D REDUCED GRAPHENE OXIDE/SIO 2 COMPOSITE FOR ICE NUCLEATION**

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(57) **ABSTRACT**

The present invention provides for an ice-nucleating particle for cloud seeding and other applications, which can initiate ice nucleation at a temperature of  $-8^{\circ}$  C. Further, the ice nucleation particle number increased continuously and rapidly with the reducing of temperature. The ice nucleating particle in the present invention is a nanostructured porous composite of 3-dimensional reduced graphene oxide and silica dioxide nanoparticles (PrGO-SN). The present invention also provides for a process for synthesizing the PrGO-SN.

## 3D Reduced Graphene Oxide/Sio 2 Composite For Ice Nucleation

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